|            |                   |          |  |          |        |        |          |          |                   |            |           |          |                 | !               |              |              |              |          |   |           |            |          | A CA(-)  |                 |  |          |          |          |                 |           |           |   |
|------------|-------------------|----------|--|----------|--------|--------|----------|----------|-------------------|------------|-----------|----------|-----------------|-----------------|--------------|--------------|--------------|----------|---|-----------|------------|----------|----------|-----------------|--|----------|----------|----------|-----------------|-----------|-----------|---|
|            | Index of Claims   |          |  |          |        |        |          |          |                   |            |           |          |                 | Application No. |              |              |              |          |   |           |            |          |          | Applicant(s)    |  |          |          |          |                 |           |           |   |
|            |                   |          |  |          |        |        |          |          |                   |            |           |          |                 | 10/734,896      |              |              |              |          |   |           |            |          |          | CHO, SUNG TAE . |  |          |          |          |                 |           |           |   |
|            | 1 E               |          |  |          |        |        |          |          |                   |            |           |          |                 |                 | Examiner     |              |              |          |   |           |            |          |          | Art Unit        |  |          |          |          |                 |           |           |   |
|            |                   |          |  |          |        |        |          |          |                   |            |           |          |                 |                 | Dirk Wright  |              |              |          |   |           |            |          |          | 3681            |  |          |          |          |                 |           |           |   |
|            | (Through numeral) |          |  |          |        |        |          |          |                   |            |           |          |                 |                 | .13          | ٦            | Г            | Т        | <u></u>                                 |           |            | ٦        | $\Gamma$ | $\Gamma$        |  |          |          |          | ٦               |           |           |   |
| √ Rejected |                   |          |  |          |        |        |          |          | Cancelled         |            |           |          |                 |                 | 1            |              |              | Non-El   |   |           | cted       |          | A        | A A             |  |          | ppeal    |          |                 |           |           |   |
|            |                   | =        | Al   | low      | ed     |        | +        |          |                   | Restricted |           |          |                 |                 |              |              | 11           | nter     | fere                                    | nce       |            | 0        | Objected |                 |  |          |          |          |                 |           |           |   |
| •          | Cla               | im       | _<br> -  |          |        | Date   |          |          |                   |            | Claim     |          |                 |                 | Date         |              |              |          |   |           | Claim      |          | <u> </u> |                 | Date   |          |          |          |                 |           | 7         |   |
|            |                   |          |  |          |        | ŤÏ     |          |          |                   |            | 1         |          |                 |                 |              |              |              |          |   | 7         |            |          | T        |                 |  |          |          | T        |                 |           |           |   |
| •          | Finat             | Original | 1  |          |        |        |          |          |                   | i          |           | Original |                 |                 |              |              |              |          |   |           | Final      | Original |          |                 |  |          |          |          | 1               |           |           |   |
|            |                   | ŏ        | ٧  |          |        |        |          |          | Ш                 | Ľ          | L         |          |                 |                 | $\bot$       | $\perp$      | L            |          | Ш                                       |           | L          | 1        | $\perp$  | $oxed{oxed}$    |  |          |          | $\perp$  | $\perp$         | $\perp$   | ╛         |   |
|            | _                 | 2        | 1  | 4        | +      | -      | -        | +        | H                 | -          |           | 51<br>52 | +               | +               | +            | ╀            | ╀            | ┝        | ╁                                       | -         | -          | 101      |          | $\vdash$        | $\vdash$   | -        | $\dashv$ | -        | +               | +         | $\dashv$  | , |
|            | 7                 | 3        | O  | 自        | +      | 11     |          | +        | Н                 | -          | T         | 53       | 7               | +               | 1            | +            | T            | T        | $\Box$                                  | $\exists$ |            | 103      |          |                 |  |          |          |          |                 | 1         |           |   |
|            | Z                 | 4        | П  | П        | $\Box$ |        |          | 1        |                   |            | $\Box$    | 54       | $\dashv$        | $\dashv$        | $\downarrow$ | Ţ            | L            | L        | П                                       | $\exists$ |            | 104      |          |                 |  |          |          | $\dashv$ | $\Box$          | 4         | _         |   |
|            | 3                 | 5        | 1  |          |        | +      | $\vdash$ | +        | H                 |            |           | 55<br>56 | $\dashv$        | +               | ╅            | +            | ╁            | ╁╌       | ╁┼                                      | $\dashv$  | -          | 105      |          | $\vdash$        | $\vdash$   | $\dashv$ | $\vdash$ | -        | $\dashv$        | +         | $\dashv$  |   |
|            |                   | 7        | $\mathbf{z}$                                     |          | 1      |        |          |          | 口                 |            | T         | 57       |                 |                 | 土            | 上            | İ            |          | 口                                       | ゴ         |            | 107      |          |                 |  |          |          | コ        | 1               | 1         | ╛         |   |
|            | <u> </u>          | 8        | U  |          | -      | 4-4    |          | +        | $\sqcup$          | -          | +         | 58<br>59 | 4               | 4               | -            | +            | +            | ╀        | $\vdash \vdash$                         | 4         | -          | 108      |          | -               | $\vdash$   | $\dashv$ | Н        | -        | +               | $\dashv$  | ╣         |   |
|            | 5                 | 10       |  | ╘        | ╅      | +      | Н        |          | Н                 | $\vdash$   |           | 60       | $\dashv$        | $\dashv$        | +            | ╁            | +            | $\vdash$ | H                                       | $\dashv$  | $\vdash$   | 110      |          | 十               |  |          | Н        | $\dashv$ | +               | $\forall$ | Ⅎ         |   |
|            |                   | 11       | ¥  |          |        |        |          | $\Box$   | $\Box$            |            |           | 61       | $\Box$          | 1               | 1            | Ţ            | I            |          | П                                       |           |            | 111      |          | $\Box$          |  |          | П        | 4        | $\Box$          | $\dashv$  |           |   |
|            |                   | 12       | 1  | 1        | +      | -      | $\dashv$ | +        | +-                | -          | +         | 62<br>63 | -               | +               | +            | +            | +            | ╀        | ╁╌┼                                     |           | $\vdash$   | 112      |          | ╁╌              | ╂╼╂  |          | $\vdash$ | -        | +               | $\dashv$  |           |   |
|            |                   | 13       | ۲  | H        | +      | 1      | H        | 十        | H                 | $\vdash$   | T         | 64       |                 | 1               | 1            | t            | $\dagger$    |          |   |           |            | 114      |          | <u> </u>        |  |          |          | I        | 士               | 1         |           |   |
|            |                   | 15       |  |          |        |        |          |          | П                 |            |           | 65       |                 | $\Box$          | 1            | $\downarrow$ | Ţ            | L        | П                                       |           |            | 115      |          |                 |  |          | Ц        | _        | 1               | $\dashv$  | 4         | i |
|            |                   | 16<br>17 | ├-   | $\vdash$ |        | +-     | $\vdash$ |          | +                 | -          |           | 66<br>67 | $\dashv$        | +               | +            | +            | ╀            | ╁        | H                                       | $\dashv$  | $\vdash$   | 116      | +        | ╁               | H  | -        | Н        | ┪        | $\dashv$        | $\dashv$  | ┥         |   |
|            |                   | 18       | <del> </del>                                     |          | 十      | +      |          |          | $\Box$            |            | $\exists$ | 68       |                 | 1               | 士            | $\perp$      | İ            | İ        |   |           |            | 118      |          | 工               | 口  |          |          |          | コ               | _         |           |   |
|            |                   | 19       |  | П        |        |        | П        | $\perp$  | П                 |            | _         | 69       | $\Box$          | 4               | 4            | 1            | 1            | ļ.,      |   | 4         | -          | 119      |          | ╀               | $\sqcup$   |          | -        |          | 4               | 4         | -         |   |
|            |                   | 20<br>21 | $\vdash$   | $\vdash$ | -      | ╁      | $\vdash$ | -        | +                 | -          | $\dashv$  | 70<br>71 |                 | +               | +            | ╁            | +-           | ╁        | + +                                     | $\dashv$  | -          | 120      | +        | $\vdash$        | Н  |          | Н        | $\neg$   | ᅱ               | ┪         | $\dashv$  |   |
|            |                   | 22       | <del>                                     </del> | Н        | 士      |        |          |          |                   |            | ╛         | 72       |                 |                 | 1            |              | 土            | L        |   |           |            | 122      | 2        |                 | 口  |          |          | $\Box$   |                 | $\Box$    |           |   |
|            | <u> </u>          | 23       | L  | Ш        |        |        | П        |          | $\Box$            |            | 4         | 73       |                 | $\perp$         | +            | +            | $\downarrow$ | ╀        | $\sqcup$                                | -         | -          | 123      |          | ┼               | $\square$  |          | Н        | $\dashv$ | -               | -         | -         |   |
|            | -                 | 24<br>25 | +-   | $\vdash$ | -      | +      | $\vdash$ |          | ╁┤                | -          | ┪         | 74<br>75 |                 | ᆉ               |              | ┿            | ╁            | +-       | ++                                      | $\dashv$  | -          | 125      |          | +               | $\vdash$   |          | $\vdash$ | $\dashv$ | 1               | 7         | $\dashv$  |   |
|            |                   | 26       |  |          | 工      |        |          |          |                   |            |           | 76       |                 |                 |              |              | I            |          | $\Box$                                  |           |            | 126      |          |                 | П  |          |          |          |                 | $\Box$    |           |   |
|            |                   | 27       | $\vdash$   |          | 1      | +      | Н        | _        | $\dashv$          | -          | 4         | 77<br>78 | $\dashv$        | -               | +            | +            | +            | ╀        | ╂┷╅                                     |           | -          | 127      |          | ┼               | $\vdash$   |          | H        | -        | -               | +         | ᅱ         |   |
|            | $\vdash$          | 28<br>29 | ╁  | $\vdash$ | +      | +      | H        | $\dashv$ | +1                | -          | $\dashv$  | 79       |                 | $\dashv$        | $\dashv$     | +            | ╁            | +        | +                                       | -         | <b> </b> - | 129      |          | ╁               | H  | _        | $\vdash$ | _        | $\dashv$        | 7         | ┪         |   |
|            |                   | 30       | L  |          | 工      |        |          | 工        | 口                 |            |           | 80       |                 |                 | 1            |              | T            | I        | $\Box$                                  |           |            | 130      | ) T      |                 |  |          |          | $\Box$   | $\Box$          | $\Box$    |           | • |
|            | -                 | 31       | ┝  | Н        | - -    | +-     | Н        |          | +                 | -          | $\dashv$  | 81<br>82 | $\vdash$        | -               | $\dashv$     | +            | +            | ╀        | +                                       | $\dashv$  | $\vdash$   | 131      |          | +               | $\vdash$   |          | Н        | $\dashv$ | ╗               | $\dashv$  | ┥         |   |
|            | -                 | 33       | ╁╌   | $\vdash$ | +      | ╁      | Н        |          | ╁┤                | <b>-</b>   | +         | 83       | $\vdash$        | $\dashv$        | $\dashv$     | +            | ╈            | 十        | $\vdash$                                | $\dashv$  | -          | 133      |          | +               | $\Box$   |          | H        |          | 1               | _         | $\dashv$  |   |
|            |                   | 34       |  |          | 工      |        |          | 工        |                   |            | $\Box$    | 84       |                 | $\Box$          |              | I            | I            | I        |   |           |            | 134      |          | $oxed{\bot}$    |  |          |          |          | $\dashv$        |           |           |   |
|            | <u> </u>          | 35<br>36 | ╄  | Н        | 4      | +-     | Н        | +        | +                 | -          | $\dashv$  | 85<br>86 | $\vdash$        | $\dashv$        | +            | +            | ╀            | ╀        | ╀┩                                      | $\dashv$  | $\vdash$   | 139      |          | ╀               |  | !        | Н        | $\dashv$ | ┥               | $\dashv$  | $\dashv$  |   |
|            | <u> </u>          | 37       | $\vdash$   | H        | +      | ╁      | Н        | 十        | $\forall \exists$ | -          | ┪         | 87       | $\square$       | +               |              | 1            |              | 1        | $\Box$                                  |           |            | 137      | 7        |                 |  |          |          |          |                 |           | $\exists$ |   |
|            |                   | 38       |  |          |        |        |          |          | $\Box$            |            | $\Box$    | 88       |                 |                 | $\Box$       | Ţ            | Ţ            | Ţ        |   | $\Box$    |            | 130      |          | $\bot$          |  |          |          |          |                 |           | _         |   |
|            |                   | 39<br>40 | ╄-   | ╢        |        | +-     | $\vdash$ |          | +                 | -          | -         | 89<br>90 | $\dashv$        | $\dashv$        | +            | +            | +            | ╀        | +                                       | $\dashv$  | -          | 139      |          | ╁               | ╁  |          |          | -        | $\dashv$        | ᅱ         | $\dashv$  |   |
|            | -                 | 41       | +-   | +        | +      | +      | $\vdash$ | +        | +                 |            | _         | 91       | H               | _               | _            | 士            | 士            | 士        | 士士                                      |           |            | 14       |          | $\perp$         |  |          | H        |          |                 | 士         |           |   |
|            |                   | 42       | F  | 口        | 7      | 工      | 口        | 7        | $\Box$            |            | $\Box$    | 92       | 口               | $\Box$          | $\bot$       | Ŧ            | T            | T        | П                                       | $\exists$ | F          | 14       |          | $\perp$         | $\Box$   |          | П        | $\Box$   | Ц               | 4         | $\dashv$  |   |
|            | -                 | 43       | ╁  | ₩        | +      | +-     | Н        | +        | +                 | -          | $\dashv$  | 93<br>94 | $\vdash \vdash$ |                 | $\dashv$     | ╫            | +            | +        | +-                                      | $\dashv$  | +          | 14       |          | +               | +  | -        | Н        | Н        | ᅴ               | -1        | $\dashv$  |   |
|            |                   | 45       | T  | 口        | 士      |        | ∐        | 士        | 力                 |            |           | 95       | 口               |                 | 士            | 士            | 土            | İ        | $\Box$                                  |           |            | 14       | 5        | 工               |  |          |          |          |                 | $\Box$    |           |   |
|            |                   | 46       | F  | $\Box$   | $\bot$ | $\bot$ | П        | $\bot$   | $\Box$            |            | 4         | 96<br>97 | $\square$       | $\dashv$        | $\dashv$     | 1            | 1            | +        | 4-7                                     | _         | -          | 14       |          | +               | <del>                                     </del> | ļ        |          |          | $\vdash \vdash$ |           | _         |   |
|            | -                 | 47       | +-   | ╁┼       | +      | +      | Н        |          | ┽┥                | -          | ᅱ         | 98       | $\vdash \vdash$ | $\dashv$        | +            | +            | +            | 十        | +                                       | -         | -          | 14       |          | ╁┈              | ╁  |          | ┪        | Н        | $\vdash \dashv$ | $\dashv$  | -         |   |
|            |                   | 49       |  | $\Box$   | 士      |        |          |          | 口                 |            | コ         | 99       |                 |                 |              | 1            | Ţ            | I        | $\Box$                                  |           |            | 14       | 9        | I               |  |          |          |          |                 |           |           |   |
|            |                   | 50       |  | $\Box$   | $\Box$ |        |          | $\Box$   |                   |            |           | 100      | $\Box$          |                 | [            |              | 1            | 1        | لــــــــــــــــــــــــــــــــــــــ | Ш         | L          | 15       |          | _ل              | Ш  | <u>L</u> |          |          |                 |           | Ш         |   |